

**Motorola 52<sup>nd</sup> Street Superfund Site Updates – April 20, 2016**  
**Community Information Group (CIG) Webinar**  
Prepared by ADEQ & EPA

**2016 Five-Year Review**

- The 2016 FYR is underway. It evaluates the technical aspects of the OU1 and OU2 treatment plants to ensure they remain protective of human health and the environment.
- Interview forms are being sent out to individuals to complete and return.
- The FYR will be completed in September 2016 and available at the site repositories and ADEQ and EPA websites. We will email the report text to the CIG email list as well.

**Operable Unit 1**

- ADEQ and EPA are reviewing the 2015 Operable Unit 1 Effectiveness Report reflecting the annual groundwater sampling in fall 2015.
- Field work is currently underway to identify and address remaining data gaps that may have existed in order to complete the Remedial Investigation. Work includes vadose zone investigations in two areas at the former 52<sup>nd</sup> Street facility campus, confirmation sampling for post-remediation rebound confirmation, and groundwater investigation to address identified data gaps. Upon completion of the Remedial Investigation, a Feasibility Study will be conducted to determine if any changes or adjustments to the existing remedy are necessary.
- During 2015, the OU1 extraction wells produced and treated an approximate total of 96,470,008 gallons of groundwater with an estimated 584 pounds of volatile organic compounds recovered and disposed of, including 2.8 pounds extracted from bedrock as free-phase dense non-aqueous phase liquids.
- From startup through 2015, approximately 3.74 billion gallons of water have been extracted and treated with an estimated 24,852 pounds of volatile organic compounds being recovered.

***Vapor Intrusion***

- The residential vapor intrusion investigation is complete. A total of 16 residential buildings required mitigation. One vacant commercial property requires a deed restriction and mitigation when it becomes ready to be occupied. Ongoing maintenance checks and monitoring are conducted at mitigated homes.
- The former M52 Plant vapor intrusion investigation is in progress by Freescale/Clear Creek, approximately 90 acres. Presentation from Clear Creek on activities.

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**Operable Unit 2**

- ADEQ and EPA are reviewing the 2015 Operable Unit 2 Effectiveness Report reflecting the annual groundwater sampling in fall 2015.
- ADEQ and EPA have submitted comments on the Draft Focused Feasibility Study for the Honeywell 34<sup>th</sup> Street Facility.
- The agencies have also submitted comments on the Honeywell Area 21 located near 20<sup>th</sup> Street and Washington and have requested soil gas sampling to be conducted as part of the Focused Remedial Investigation.
- The OU2 Groundwater Treatment system continues to provide plume containment and since start up in 2001 over 15,000 pounds of volatile organic compounds (VOCs) have been removed from the groundwater. Since 2001 groundwater levels have declined by an average of approximately 16 feet. The screen intervals above the water table, especially the southern extraction well are being monitored. So far this hasn't affected the extraction rates.
- ADEQ has completed the September 2014 Sitewide maps and are in the process of completing the September 2015 Sitewide maps.
- The former Joray/Kachina facility located at 30<sup>th</sup> Street and Washington continues to operate the soil vapor extraction (SVE) system that started in March 2013. Contaminant levels for PCE in the shallow zone beneath the facility have been significantly reduced. Pre SVE levels were as high as 39,000 ug/m<sup>3</sup> and currently only 1 location/depth exceeds the industrial soil gas human health screening levels. Planning for the step out delineation of soil gas is underway along with an investigation of DNAPL at the southern drywell in the 55 foot depth zone above bedrock.
- ADEQ with Hargis and Associates performed a remedial investigation at the Nelson Engineering Facility located at 4020 East Airline. The Remedial Investigation report was completed in late May 2015 and follow up confirmation samples for chromium and arsenic have been requested.
- Former Honeywell Area 13 located at 27<sup>th</sup> Ave and Washington submitted the Final RI report which was accepted and closed out. No exceedances of VOCs in soil gas were reported.
- The site-wide OU2 RI will be completed after the September 2016 groundwater sampling round and vapor intrusion sampling.

***Vapor Intrusion***

- OU2-wide vapor intrusion work is being planned. The work will be implemented by Freescale and Honeywell. Presentation from CB&I on planned activities.

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**Operable Unit 3**

- The draft Remedial Investigation, Risk Assessment, and Feasibility Study reports for OU3 were submitted by the OU3 Working Group in late April 2015. Agency comments were provided on the RI which is planned for completion this year. The public comment period occurs after the Feasibility Study is completed and a preferred remedy is selected.
- EPA and ADEQ are reviewing the Annual Groundwater Monitoring Report reflecting the annual groundwater sampling in fall 2015.
- EPA continues to work with other facilities on site-specific evaluations.

***Vapor Intrusion***

- The OU3 soil vapor data indicates there is no vapor intrusion threat at OU3.
- 2014 soil vapor data indicates a small, localized area of elevated soil vapor levels in the vicinity of soil vapor monitoring well SVM-1. EPA is evaluating the possible source(s) of this small soil vapor plume and whether any further steps are warranted. The soil vapor plume is located in a paved parking lot area.

**Next Call or Webinar**

Proposed date is October 26

Call with Agencies if up to 5 CIG members confirm attendance

Webinar if 6 or more CIG members confirm attendance